GANZ, V.; FRONEK, A.

Effect of nitroglycerin on coronary and general hemodynamics and
on oxygen metabolism in the myocardium. Cas.lek.cesk. no.15:400-405 '60.

1. Ustav pro choroby obehu krevniho, Praha-Krc, reditel prof.Dr.
Sc Kl. Weber.
      (NITRITES pharmacol.)
      (MYOCARDIUM metab.)
      (BLOOD CIRCULATION pharmacol.)

GANZ, V. FRONEK, A.

Measurement of the flow in the sinus coronarium using a method of
local thermodilution. Cas.lek.cesk. 99 no.18:545-557 29 Ap '60.

1. Ustav pro choroby obehu krevniho, Praha-Krc, reditel prof.
MUDr. Klement Weber.
            (CAROTID SINUS physiol.)

FRONEK, A.; GANZ,V.; HAMMER, J.; PISA,Z.

   Basic levels of coronary systemic circulations and oxygen
   metabolism in dogs under anesthesia. Cesk.fysiol. 9 no.3:228
   My '60.

   1. Ustav pro choroby obehu krevniho, Praha.
         (BLOOD CIRCULATION)
         (OXYGEN blood)
         (CORONARY VESSELS physiol)
         (ANESTHESIA GENERAL)

FRONKOVA,K.; FRONEK, A.; GANZ, V.

Change of cardiac minute volume by means of non-conditioned
food reflex in dogs. Cesk.fysiol. 9 no.3:229- My '60.

1. Ustav pro choroby obehu krevniho,Praha
        (BLOOD VOLUME)
        (HEART physiol)
        (REFLEX)

GANZ, V.; FRONEK, A.

Effect of nitroglycerin on coronary and systemic hemodynamics
and on oxygen metabolism of the myocardium. Cesk.fysiol. 9 no.3:
284-285 My '60.

1. Ustav pro choroby obehu krevniho, Praha.
        (MYOCARDIUM metab)
        (CORONARY VESSELS pharmacol)
        (BLOOD PRESSURE pharmacol)
        (NITRITES pharmacol)

GANZ, V.; FRONEK, A.; HAMMER, J.

An investigation of the pharmacological treatment of angina pectoris.
Rev. czech. M. 8 no.2:137-142 '62.

1. Institute for Cardiovascular Research, Prague; Director: Academician
K. Weber, M.D.
(ANGINA PECTORIS therapy)    (NITRITES therapy)
(PAPAVERINE therapy)      (EPINEPHRINE pharmacol)
(ERGOT ALKALOIDS pharmacol)

FENCL, Vladimir; GANZ, Vilem; CORT, Josef H.; JIRKA, Jiri; technicka
spoluprace HORACKOVE, D.; HRABETOVE, J.; KOTRBATE, M.; VANICKOVE, V.

Modification of the renal fraction of the minute volume in hemorrhagic
hypotension in the dog.  Cas. lek. cesk. 101 no.34:1025-1027 24 Ag '62.

1. Ustav pro choroby obehu krevniho v Praze, reditel doc. dr. J. Brod,
DrSc.
             (BLOOD VOLUME)        (KIDNEYS)     (HYPOTENSION)
                          (HEMORRHAGE)

GANZ, V. Technical assistance: HRABETOVA,J.; VANICKOVA,V.

The effect of adrenaline on the relationship between oxygen
need and supply in the myocardium. Cor. vasa 6 no.2:142-146
'64.

1. Institute for Cardiovascular Research, Prague.

· GANZBURG, A.

> We check and help. Okhr. truda i sots. strakh. 6 no.3:9-10
> Mr '63.                                    (MIRA 16:4)
>
> 1. Predsedatel' obshchestvennoy komissii sotsial'nogo strakho-
> vaniya pri oblastnom komitete professional'nogo soyuza rabo-
> chikh lesnoy, derevoobrabatyvayushchey i bumazhnoy promysh-
> lennosti, Irkutsk.
>
>     (Irkutsk Province—Industrial hygiene)

GANZBURG, G. M.

USSR/Metals - Steel, Analysis
    Chemistry - Analysis, Steel          Sep 50

"Photocolorimetric Titration in Analysis of Alloy Steels," M. S. Gaukhman, B. E. Reznik, G. M. Ganzburg, Dnepropetrovsk State U

"Zavod Lab" Vol XVI, No 9, pp 1045-1048

Develops accelerated method for determination of Mn and Cr from single sample using photocolorimetric titration. Average accuracy of determination is 0.02% for Mn at contents from 0.4 to 1.2% and 0.22% for Cr at contents from 15 to 30%, time - 25 min. Method is suitable for melting control. Describes methods for determination of V in steels. Determination time is 35 min, average accuracy 0.02% at V contents from 0.24 to 2.26%.

FDD  PA 169T49

GANZBURG, G. M.

"Studying Certain Complex-Forming Reactions and the Oxidation-Reduction of the
Transition Elements."  Cand Chem Sci, Dnepropetrovsk State U, Dnepropetrovsk, 1954.
(KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational
Institutions (12)

SO:  SUM No. 556, 24 Jun 55

GANZBORG, G. M.                    137-58-5-11137

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 319 (USSR)

AUTHORS:   Ganzburg, G. M., Dlugach, R. Ye.

TITLE.     Determination of Manganese and Chromium in Steel With the
           Aid of a Cobalt-copper-nickel Catalyst (Opredeleniye marg-
           antsa i khroma v stali s kobal'to-medno-nikelevym kataliza-
           torom)

PERIODICAL:  Tr. Nauchno-tekhn. o-va chernoy metallurgii. Ukr. resp.
             pravl. 1956, Vol 4, pp 82-88. Comments, pp 89-92

ABSTRACT:   A method was developed for the rapid determination of Mn
           and Cr in high-chromium, Cr-Ni, and carbon steels without the
           employment of $AgNO_3$. 100 cc of an aqueous solution containing
           0.25% of $CoSO_4 \cdot 7H_2O$,  0.4% of $NiSO \cdot 7H_2O$. and 0.5% of
           $CuSO_4 \cdot 5H_2O$ serve as a catalyst; as usual, $(NH_4)_2S_2O_8$ is added
           the solution is boiled until the coloring of the $MnO_4^-$ ion appears
           and the excess of the $(NH_4)_2S_2O_8$ is decomposed. In the case of
           high-chromium steel, the process of determination is completed
           by titration in a titration photocolorimeter employing a glass or
           a liquid light filter (30 cc of 0.0762 N solution of $CuCl_2$ plus 10 cc
Card 1/2   of concentrated HCl). Mn is titrated with arsenite or thiosulfate

137-58-5-11137

Determination of Manganese (cont.)

until the needle of the galvanometer comes to rest; 5-6 drops of 0.2%
phenylanthranyl acid are added to the solution and Cr is titrated with a solu-
tion of Mohr's salt until a sharp deflection of the galvanometer needle is ob-
served. The process of determination requires 15-20 minutes. In the case of
Cr-Ni and carbon steels, the process of determination is concluded by visual
titration: the Mn is titrated with thiosulfate, 5-6 drops of phenylanthranyl
acid are added, and the Cr is titrated with Mohr's salt. The process requires
8-10 minutes. Results obtained coincide with the results of the process in
which an Ag catalyst was employed.

N. G.

1. Manganese--Determination    2. Chromium--Determination    3. Steel--Analysis
4. Cobalt-copper-nickel catalysts--Applications

Card 2/2

GANZBURG, G.M.; DLUGACH, R.Ye.

Determination of manganese and chromium in steel with a cobalt-copper-nickel catalyst. Ukr.khim.zhur. 23 no.4:533-536 '57.

(MIRA 10:10)

1.Dnepropetrovskiy gosudarstvennyy universitet.
(Steel--Analysis)

5(4)

AUTHORS:    Reznik, B. Ye., Ganzburg, G. M.    SOV/78-4-4-22/44

TITLE:    Investigation of the Formation Reaction of Phosphomolybdenum-blue in Solution (Issledovaniye reaktsii obrazovaniya fosforo-molibdenovoy sini v rastvore)

PERIODICAL:    Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 4, pp 845-851 (USSR)

ABSTRACT:    Physico-chemical analysis was used to investigate the conditions for the formation of phosphomolybdenum-blue (by the reduction of phosphomolybdates with iron (II) sulfate) in regard to dependence upon the acidity, the concentration of phosphate and molybdate, and the molar ratio $\frac{Mo}{P}$ . The acidity was varied between pH 0.85 and 4.1. The investigations showed that in the formation of phosphomolybdenum-blue a change in the pH value influences the degree of polymerization of the molybdate ion and the oxidation power of the phosphomolybdate ion. The sensitivity of the reaction to phosphorus at different acidities was investigated, and it was found that the reaction is most sensitive at pH 2.18 to 2.8. It was also found that

Card 1/3

SOV/78-4-4-22/44

Investigation of the Formation Reaction of Phosphomolybdenum-blue in Solution

with a molar ratio $\frac{Mo}{P} < 12$ the equilibrium between the molyb-
dates of various degrees of saturation is of determining im-
portance. With a molar ratio $\frac{Mo}{P} > 12$ the equilibrium between
phosphomolybdenum-blue and the ions of the phosphomolybdic
and molybdic acids is determining. The saturated phosphomolyb-
dates differ from the unsaturated in their oxidizing power
against iron (II). The unsaturated phosphomolybdates are not
reduced by divalent iron. It was found that with molar ratios
$\frac{Mo}{P} < 12$ the optical density of the phosphomolybdenum-blue is
proportional to the molybdenum concentration. On the basis of
this finding a new method of determining the molybdenum con-
centration was suggested with which a determination can be car-
ried out in 20 minutes. The molar absorption coefficients of
phosphomolybdenum-blue were calculated at various pH values
and they are given in a table. A table gives the relationship
between the optical density of molybdenum-blue and phospho-
molybdenum-blue. A third table gives the results of the analysis
Card 2/3      of 6 ferromolybdenum samples using the method developed. There

Investigation of the Formation Reaction of Phosphomolybdenum-blue in Solution
SOV/78-4-4-22/44

are 11 figures, 3 tables, and 17 references, 14 of which are Soviet.

SUBMITTED:    December 30, 1957

Card 3/3

REZNIK, B. Ye.; GANZBURG, G.M.; SACHKO, V.V.

Rapid variant of the rhodanide method for the determination of molybdenum. Zav.lab. 28 no.3:277-278 '62.                (MIRA 15:4)

1. Dnepropetrovskiy gosudarstvennyy universitet.
          (Molybdenum—Analysis) (Thiocyanates)

GINZBURG, G. A., BEDNYAK, N. A., and REZNIK, B. Ye.

"Investigation of the Catalytic Action of Several Transition Elements on the Reduction of Molybdenur by Thiocyanide/rodanid/"

submitted at the Conference on Kinetic Methods of Analysis, Ivanovo, 14-16 June 1960

So: Izvestiya Vysshikh Uchebnykh Zavedeniy SSSR, Khimiya i Khimicheskaya Technologiya, Vol III, No 6 Ivanovo, 1960, pages 1113-1116.

REZNIK, B.Ye.; GANZBURG, G.M.

Photometric investigation of the formation of molybdenum-
rhodanide without the introduction of a reducing agent.
Ukr. khim. zhur. 28 no.1: ... 17  ...     (MIRA 16:8)

1. Dnepropetrovskiy gosudarstvennyy universitet.

WORTH., B F.; [illegible], [illegible]; [illegible]

Photoelectric study of the [illegible] reaction of a [illegible]
[illegible]. Zhur. khim. khur. [illegible] no. [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible].

GASBERG, G.M.; MAL'TSEVA, G.V.

Determination of cobalt and iron in nickel with ortho-
phenanthroline. Zav.lab. 31 no.4:406-408 '65.

(MIRA 18:12)

1. Dnepropetrovskiy gosudarstvennyy universitet.

*GANZBURG, I. M.*

**Ganzburg, I. M.** On a method of approximation of continuous functions by trigonometric sums. Doklady Akad. Nauk SSSR (N.S.) 64, 13-16 (1949). (Russian)

Let $C$ be the class of all continuous functions of period $2\pi$, and let $S_n(f, x)$ denote the partial sums of the Fourier series of any $f \varepsilon C$. Given any real sequences $\{\alpha_n\}$ and $\{\beta_n\}$ we consider the expressions

$$\omega_n(\alpha_n, \beta_n; f, x) = \tfrac{1}{3}\{S_n(f, x) + S_n(f, x+\alpha_n) + S_n(f, x+\beta_n)\}$$

(thus we may assume that $|\alpha_n|, |\beta_n| \leq \pi$ for all $n$). It is shown that a necessary and sufficient condition that $\omega_n(\alpha_n, \beta_n; f, x)$ tend uniformly to every $f \varepsilon C$ is that

$$\alpha_n = \frac{4p\pi}{3(2n+1)} + O(1/(n \log n)),$$

$$\beta_n = \frac{4q\pi}{3(2n+1)} + O(1/(n \log n)),$$

where $p = p(n)$ and $q = q(n)$ are integers taking only a finite number of values, of the form $3r-1$ and $3s+1$, respectively. [For a result of similar type see the preceding review.]
                            A. Zygmund (Chicago, Ill.).

Source: Mathematical Reviews,          Vol. 10 No. 7

GANZBURG, I. M.

10·7-54

L L

(1)

**Ganzburg, I. M.** On certain methods of approximation of summable functions by means of polynomials. Ukrain. Mat. Žurnal 5, 304–311 (1953). (Russian)

It is well known that if $f \varepsilon L_r(0, 2\pi)$ for $r > 1$, then for every $k > 0$ and almost every $x$

$$n^{-1}\sum_{r=1}^{n} |S_r(x; f) - f(x)|^k \to 0,$$

where the $S_r$ are the partial sums of the Fourier series of $f$, and that this result fails for $r = 1$. It may be verified for functions satisfying $\int_{-\pi}^{\pi} |f(x-h) - 2f(x) + f(x+h)| dx = O(|h|^\alpha)$, $0 < \alpha \leqq 1$. To establish this the author shows that if

$$l_n(x; f) = \tfrac{1}{3}[S_n(x; f) + S_n(x + a_n; f) + S_n(x - a_n; f)],$$
$$a_n = 4\pi/3(2n+1),$$

then $l_n$ converges to $f$ at every point of its Lebesgue set. It is remarked that the corresponding summation method for numerical series given by the triangular matrix with entries $a_{nm} = \tfrac{1}{3}(1 + \cos 4\pi m/3(2n+1))$ is stronger than $(C, 1)$.

G. Klein (South Hadley, Mass.).

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GANZBURG, I. M.

275T75

USSR/Mathematics - Approximation                21 Aug 53

"Approximation of Functions with Given Modulus of Continuity by Chebyshev Sums," I. M. Ganzburg, Dnepropetrovsk State Univ

DAN SSSR, Vol 91, No 6, pp 1253-1256

States that it is of considerable interest to det the asymptotic behavior of the upper bound of the deviations of functions $f(x)$ from their Chebyshev sum $S_n(f,x)$ as extended to the class $H_w$ of given functions $f(x)$ $(-1 < x < 1)$ for which the inequality $/f(x')-f(x'')/ = w(x'-x'')/$ holds; here $w(t)$ is a convex-upward function representing the modulus of

continuity. That is, the author considers the asymptotic evaluation of the quantity $E_n(H_w,x) =$ $\sup/f(x) - s_n(f,x)/$ for $f$ in $h_w$ and for any Lipschitz condition $-a$ $(O < a \neq 1)$. Demonstrates a theorem that gives for each $x$ in the interval $[-1,1]$ the asymptotic behavior of $E_n$ uniformaly in $[-1,1]$. Notes that this problem was solved by S. M. Nikol'skiy (Iz AN SSSR, Ser Matem. 10, 295, 1946) for Lipschitz condition -1 and by A. F. Timan (DAN 77, No 6, 969, 1951) for Lipschitz condition -a $(O < a < 1)$. Acknowledges advice of Professors S. M. Nikol'skiy and A. F. Timan. Presented by Acad A. N. Kolmogorov 27 Jun 53.

*GANZBURG I M*

AUTHOR:     GANZBURG I.M.                              20-5-3/48

TITLE:      Generalization of Some Results due to Nikol'skiy S.M. and Timan A.F.
            (Obobshchenjye nekotorykh rezul'tatov S.M.Nikol'skogo i A.F.Timana)

PERIODICAL: Doklady Akad.Nauk  SSSR,   1957,Vol.116,Nr.5,pp.727-730 (USSR)

ABSTRACT:   Let $MH^{(\alpha)}$ be the class of functions $f(x)$ defined on $[-1,+1]$ for
            which
            $$|f(x')-f(x'')| \leq M|x'-x''|^{\alpha}  \qquad x',x'' \in [-1,+1], \qquad 0 < \alpha \leq 1.$$
            Let $s_n(f,x)$ be the partial sum of the Chebysev series for $f(x)$.
            Furthermore let

            $$\sigma_{n,k}(f,x) = \frac{1}{k+1} \sum_{\nu=n-k}^{n} s_\nu(f,x) \qquad (n=0,1,2,\ldots;\ 0 \leq k \leq n)$$

            and
            $$E_n(MH^{(\alpha)},x) = \sup_{f \in MH^{(\alpha)}} |f(x) - \sigma_{n,k}(f,x)| .$$

            Theorem: For $n \to \infty$ there holds the asymptotic equation

Card 1/2   $$E_n \equiv E_n(MH^{(\alpha)},x) = \frac{2^{\alpha+1}M}{\pi^2 n^{\alpha}} (1-x^2)^{\frac{\alpha}{2}} \int_0^{\frac{\pi}{2}} t^{\alpha}\sin t\ dt \cdot \ln \frac{n+1}{k+1} + O\left(\frac{1}{n^{\alpha}}\right).$$

Generalization of a Result due to Nikol'skiy S.M. and Timan A.F.    20-5-3/48

Here O(1) means a magnitude uniformly bounded with respect to all $x \in [-1,+1]$ and all k ($0 \leqslant k \leqslant n$ for $0 < \alpha < 1$ and $0 \leqslant k \leqslant n\theta$, $\theta < 1$ for $\alpha = 1$). Five Soviet references are quoted.

PRESENTED:   By S.N.Bernshteyn, Academician, April 27, 1957
ASSOCIATION: Dnepropetrovsk State University imeni 300th Anniversary of the Reunion
             of Ukraine with Russia   (Dnepropetrovskiy gosudarstvennyy
             universitet im 300-letiya vossoyedineniya Ukrainy s Rossiey)
SUBMITTED:   January 3, 1957
AVAILABLE:   Library of Congress

Card 2/2

16(1)

AUTHORS:       Ganzburg,I.M. and Timan,A.F.          SOV/38-22-6-3/6

TITLE:         Linear Approximation Processes by Algebraic Polynomials
               for Functions Which Satisfy the Lipschitz Condition
               (Lineynyye protsessy priblizheniya funktsiy, udovletvoryayush··
               chikh usloviyu Lipshitsa, algebraicheskimi mnogochlenami)

PERIODICAL:    Izvestiya Akademii nauk SSSR,Seriya matematicheskaya,1958,
                              Vol 22, Nr 6, pp 771 - 810 (USSR)

ABSTRACT:      The authors already announced great parts of the present
               paper a longer time ago (Timan [Ref 13], Ganzburg [Ref 2]).
               The investigation of the approximation by arithmetic means
               of the partial sums of the Chebyshev series seems to be new,
               as well as a generalization of the Chebyshev series and ap-
               proximation by means of the partial sums of this generalized
               series. This last method is denoted as the "linear approxi-
               mation process by algebraic polynomials". The paper  consists
               of 6 paragraphs and contains 11 theorems with partially very
               extensive proofs.
               There are 18 references, 15 of which are Soviet, 1 German,
               1 Hungarian, and 1 Polish.

Card 1/2

Linear Approximation Processes by Algebraic Polynomials    SOV/38-22-6-3/6
for Functions Which Satisfy the Lipschitz Condition

PRESENTED:    by S.L. Sobolev, Academician

SUBMITTED:    June 25, 1957

Card 2/2

PHASE I BOOK EXPLOITATION        SOV/2660

L6(1)

Vsesoyuznyy matematicheskiy s'yezd. 3rd, Moscow, 1956

Trudy, t. 4: Kratkoye soderzhaniye sektsionnykh dokladov. Doklady inostrannykh uchenykh (Transactions of the 3rd All-Union Mathematical Conference in Moscow. vol. 4: Summary of Sectional Reports. Reports of Foreign Scientists) Moscow, Izd-vo AN SSSR, 1959. 247 p. 2,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskiy institut.

Tech. Ed.: G.M. Shevchenko; Editorial Board: A.A. Abramov, V.G. Boltyanskiy, A.N. Vasil'yev, B.V. Medvedev, A.D. Myshkis, S.M. Nikol'skiy (Resp. Ed.), I.G. Postnikov, Yu. V. Prochorov, M.A. Rybnikov, P. L. Ul'yanov, V.A. Uspenskiy, N.G. Chetayev, G. Ye. Shilov, and A.I. Shirshov.

PURPOSE: This book is intended for mathematicians and physicists.

COVERAGE: The book is Volume IV of the Transactions of the Third All-Union Mathematical Conference, held in June and July 1956. The book is divided into two main parts. The first part contains summaries of the papers presented by Soviet scientists at the Conference that were not included in the first two volumes. The second part contains the text of reports submitted to the editor by non-Soviet scientists. In those cases when the non-Soviet scientist did not submit a copy of his paper to the editor, the title of the paper is cited and, if the paper was printed in a previous volume, reference is made to the appropriate volume. The papers, both Soviet and non-Soviet, cover various topics in number theory, algebra, differential and integral equations, function theory, functional analysis, probability theory, topology, mathematical problems of mechanics and physics, computational mathematics, mathematical logic and the foundations of mathematics, and the history of mathematics.

Section on the Theory of Functions

Amanov, T.I. (Semipalatinsk). On the solution of a biharmonic problem                 43

Araviyskaya, Ye. M. (Tomsk). On functions of two complex variables with a given set of singular surfaces       44

Badalyan, G.V. (Yerevan). On the representation of quasi-analytic functions           45

Gangburg, I.M. (Dnepropetrovsk). On the Riemann sums for integrals of the moduli of certain trigonometric polynomials     46

Levitan, B.M. (Moscow). On the summing of multiple series and Fourier integrals       47

Mesis, A.V. (Sverdlovsk). The Riemann boundary value problem over a field of algebraic functions for systems of a pairs of functions   48

Yanenko, N.N. (Moscow). On the reduction of a system of quasilinear equations to a single quasilinear equation     49

Card 10/34

· 16(1)

AUTHORS:     Ganzburg, I.M., Timan, A.F.                    SOV/42-14-3-6/22

TITLE:       On Riemannian Sums for the Integrals of the Absolute Values
             of Some Trigonometric Polynomials

PERIODICAL:  Uspekhi matematicheskikh nauk,1959,Vol 14,Nr 3,pp 123-128(USSR)

ABSTRACT:    Let

$$K_n(t) = \frac{\lambda_0^{(n)}}{2} + \sum_{k=1}^{n} \lambda_k^{(n)} \cos kt \quad \text{be a sequence of tri-}$$

gonometric polynomials, the coefficients of which form a con-
vex or concave numerical system, and which satisfy the con-
dition

$$\left| \lambda_k^{(n)} \right| \leqslant A + B \left| \lambda_0^{(n)} \right| \quad , \quad k = 1,2,\dots,n \quad \text{with positive}$$

constants A and B . The authors consider the sums

$$\sigma_n^r(x, \lambda) = \frac{2}{\pi r} \sum_{\nu=1}^{r} \left| K_n(x - t_\nu) \right| ,$$

Card 1/3

On Riemannian Sums for the Integrals of the    $\text{SOV}/42\text{-}14\text{-}3\text{-}6/22$
Absolute Values of Some Trigonometric Polynomials

where $t_{\nu} = \dfrac{2\nu\widetilde{\pi}}{r}$ , $\nu = 0,1,\ldots,r$ .

Theorem : If

$$\frac{r}{2n+1}$$ is an integer, then for $n \to \infty$ it holds

the asymptotic equation

$$\sigma_n^r(x,\lambda) = \frac{2(2n+1)}{r\,\widetilde{\pi}} \operatorname{cosec} \frac{\widetilde{\pi}(2n+1)}{2r} \left| \cos\left\{ \frac{(2n+1)\widetilde{\pi}}{r}\left( \frac{1}{2} + \left[\frac{rx}{2\widetilde{\pi}}\right] - \frac{rx}{2\widetilde{\pi}} \right) \right\} \right.$$

$$\left. \cdot \sum_{k=0}^{n} \frac{\lambda_k^{(n)}}{n-k+1} \right| + O\left( A + B/\lambda_0^{(n)} \right| \right) ,$$

where $O(1)$ is a uniformly bounded magnitude with respect to

$n,x$ and $\dfrac{r}{2n+1}$ .

Card 2/3

On Riemannian Sums for the Integrals of the          SOV/42-14-3-6/22
Absolute Values of Some Trigonometric Polynomials

      There are 7 references, 6 of which are Soviet, and
      1 American.

SUBMITTED:    February 4, 1956

Card 3/3

16(1)

AUTHOR:    Ganzburg, I.M.                                SOV/^-128-3-3/58

TITLE:     The Extension of the Timan Asymptotic Formula to Classes of
           Functions Containing a Given Continuity Modulus

PERIODICAL: Doklady Akademii nauk SSSR,1959,Vol 128,Nr 3,pp 447-449(USSR)

ABSTRACT:   Let

$$(1) \qquad s_n(f,x) = \frac{a_o}{2} + \sum_{k=1}^{n} (a_k \cos kx + b_k \sin kx)$$

be the Fourier partial sum of $f(x) \in C$, where C is the space
of the continuous $2\pi$-periodic functions. Let the inter-
polation polynomial

$$(2) \qquad \tilde{s}_n(f,x) = \frac{a_o^{(n)}}{2} + \sum_{k=1}^{n} \left[ a_k^{(n)} \cos kx + b_k^{(n)} \sin kx \right]$$

coincide with $f(x)$ in the knots $x_\nu^{(n)} = \frac{2\nu\pi}{2n+1}$ $(\nu = 0,1,..,2n)$.

By a triangular matrix $\lambda_k^{(n)}$ $(k=0,1,...,n+1;\ \lambda_o^{(n)}=1,\ \lambda_{n+1}^{(n)}=0)$

Card 1/4    there are defined two linear approximation processes:

SOV/20-128-3-3/58

The Extension of the Timan Asymptotic Formula to Classes of Functions
Containing a Given Continuity Modulus

(3)    $u_n(f,x,\lambda) = \dfrac{a_o}{2} + \sum\limits_{k=1}^{n} \lambda_k^{(n)} \left[ a_k \cos kx + b_k \sin kx \right]$ ,

(4)    $\tilde{u}_n(f,x,\lambda) = \dfrac{a_o^{(n)}}{2} + \sum\limits_{k=1}^{n} \lambda_k^{(n)} \left[ a_k^{(n)} \cos kx + b_k^{(n)} \sin kx \right]$ .

Let

(5)    $\mathcal{E}_n(\mathfrak{M},\lambda) = \sup\limits_{f \in \mathfrak{M}} \left| f(x) - u_n(f,x,\lambda) \right|$ ,

(6)    $\tilde{\mathcal{E}}_n(\mathfrak{M},x,\lambda) = \sup\limits_{f \in \mathfrak{M}} \left| f(x) - \tilde{u}_n(f,x,\lambda) \right|$ .

Theorem 1: Let $H^{\alpha}$ be the class of the functions $f(x)$ which
are Lip$\alpha$ , $0 < \alpha < 1$, with the constant M; let $\lambda_n^{(k)}$ be a

convex number system $( \Delta^2 \lambda_k^{(n)} \leqslant 0$, $k=0,1,\ldots,n-1)$; let

Card 2/4    $\left| \Delta \lambda_o^{(n)} \right| = \mathcal{O}(\tfrac{1}{n})$. Then it is

The Extension of the Timan Asymptotic Formula to Classes of Functions
Containing a Given Continuity Modulus

$$(8) \quad \tilde{\mathcal{E}}_n(H^{(\alpha)}, x, \lambda) = \left(\frac{\pi}{2}\right)^{\alpha+1} \frac{\left|\sin\left(n+\frac{1}{2}\right)x\right|}{\int_0^{\pi/2} t^{\alpha}\sin t \, dt} \mathcal{E}_n(H^{(\alpha)}, \lambda) + \mathcal{O}\left(\frac{1}{n^{\alpha}}\right)$$

for $n \to \infty$, where $\mathcal{O}(1)$ is uniformly bounded with respect to
n and x.

Theorem 2: Let $H_\omega$ be the class of the $f(x)$ with a given

convex continuity modulus $\omega(t)$; the numbers

$$\frac{1 - \lambda_k^{(n)}}{k}$$ are not to decrease and their system is assumed to

be concave with respect to k. Then it is

$$(9) \quad \tilde{\mathcal{E}}_n(H_\omega, x, \lambda) = \frac{\pi}{2} \frac{\omega\left(\frac{2\pi}{2n+1}\right)\left|\sin\left(n+\frac{1}{2}\right)x\right|}{\int_0^{\pi/2} \omega\left(\frac{4t}{2n+1}\right)\sin t \, dt} \mathcal{E}_n(H_\omega, \lambda) + \mathcal{O}\left(\omega\left(\frac{1}{n}\right)\right)$$

Card 3/4

The Extension of the Timan Asymptotic Formula to Classes of Functions
Containing a Given Continuity Modulus

SOV/20-128-3-3/52

for $n \to \infty$, where $O(1)$ is uniformly bounded in $n$ and $x$.
Theorem 3 is unintelligible because of a misprint.
S.M.Nikol'skiy is mentioned; the author thanks A.F.Timan
for the subject.
There are 8 Soviet references.

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet imeni 300-
letiya vossoyedineniya Ukrainy s Rossiyey (Dnepropetrovsk
State University imeni 300 letiya vossoyedineniya Ukrainy
s Rossiyey)

PRESENTED:  May 26, 1959, by S.N.Bernshteyn, Academician

SUBMITTED:  May 25, 1959

Card 4/4

GANZBURG, I.M.

Extending A.F. Timan's asymptotic formula to classes of
functions with a given continuity modulus. Izv. AN SSSR Ser.
mat. 27 no.3:485-528 My-Je '63.                    (MIRA 16:6)

(Functions, Continuous)

GLUKHANOV, N. P., kand.tekhn.nauk; GAMBURG, L. B., inzh.

Shielded synchronous magnetic clutches.  Trudy NIITVCH no.4:
114-120  '63.
(MIRA 17:7)

ACC NR: AP6035534          SOURCE CODE: UR/0292/66/000/010/0036/0038

AUTHOR: Glukhanov, N. P. (Candidate of technical sciences);
Ganzburg, L. B. (Engineer)

ORG: none

TITLE: Shielded clutches

SOURCE: Elektrotekhnika, no. 10, 1966, 36-38 .

TOPIC TAGS: clutch, synchronous clutch, electric clutch

ABSTRACT: A few shielded synchronous clutches developed or tested at VNII
TVCh and intended for chemical, nuclear, and other industries are described.
The clutches transmit rotation or thrust to the inside of a sealed industrial
machine or apparatus. Essentially, they consist of a toothed outside (wound)
member, an isolating shield (1Kh18N9T nonmagnetic steel), and a toothed inside

Card 1/2 _____ UDC: 621.825.7.001.3

ACC NR: AP6035534

member. Several versions are briefly described or mentioned: a synchronous clutch for 150-atm pressure difference; a "star"-type-magnet clutch; a "bushing"-type-magnet clutch; a homopolar axial-magnet clutch for 20000 rpm, 30 kg·cm, 1.5 atm; a homopolar end-type axial-magnet clutch for 3000 rpm, 2 atm, 5 kw; a planetary-reducer-type clutch; a thrust-type clutch. "Engineer N. M. Rumyantsev took part in designing the clutches." Orig. art. has: 5 figures.

SUB CODE: 13, 09 / SUBM DATE: none / ORIG REF: 007
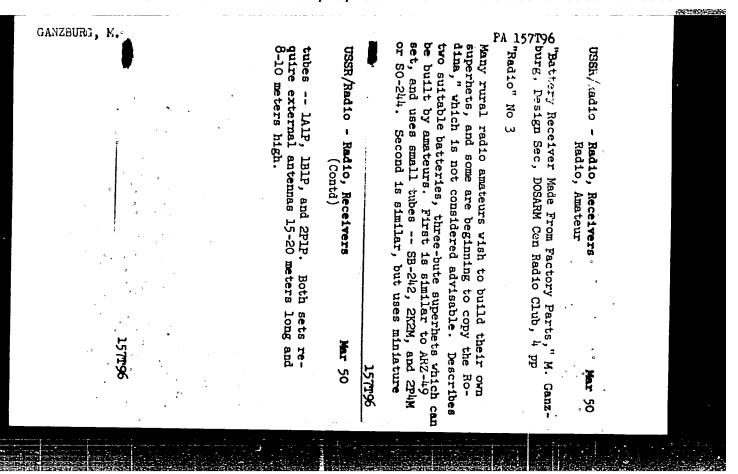
Card 2/2

GANZBURG, M.                                        PA 26/49T95
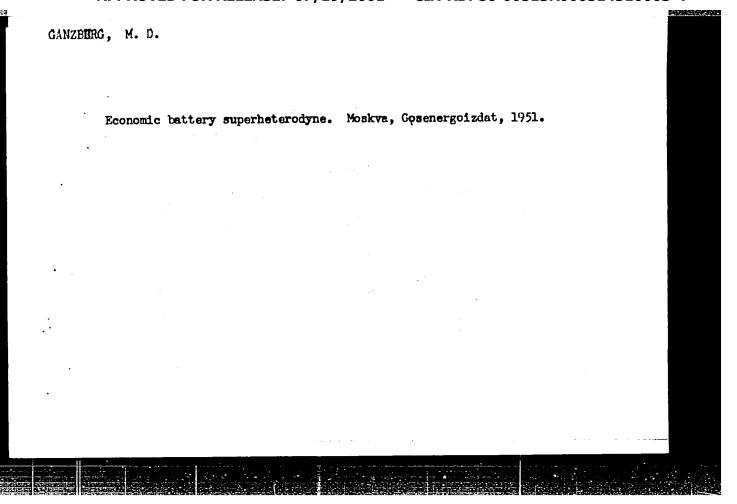
USSR/Radio Receivers                        Jan 49
     Radio Apparatus

"Converter Working on the 160-Meter Band,"
M. Ganzburg, ½ p

"Radio"  No 1

Circuit diagram, arrangement of parts, and
adjustment of a converter to 160-meter band.
May be joined to any short-wave receiver hav-
ing the 40-meter band.

26/49T95

GANZBURG, M.

USSR/Radio - Radio, Receivers                    Mar 50
          Radio, Amateur

"Battery Receiver Made From Factory Parts," M. Ganz-
burg, Design Sec, DOSARM Cen Radio Club, 4 pp

"Radio" No 3

Many rural radio amateurs wish to build their own
superhets, and some are beginning to copy the Ro-
dina," which is not considered advisable. Describes
two suitable batteries, three-bute superhets which can
be built by amateurs. First is similar to AKZ-49
set, and uses small tubes -- SB-242, 2K2M, and 2P4M
or SO-244. Second is similar, but uses miniature

PA 157T96

USSR/Radio - Radio, Receivers                    Mar 50
          (Contd)

tubes -- 1A1P, 1B1P, and 2P1P. Both sets re-
quire external antennas 15-20 meters long and
8-10 meters high.

157T96

GANZBURG, N.                                                     IA 159T105

USSR/Radio - Receivers                        May 50
            Radio Receivers, Battery

"Tube Receiver for Rural Districts,"  N. Ganzburg,
4½ pp

"Radio"  No 5

Describes, with four schematic diagrams, Ogonek-2
receiver, exhibited in Fourth Moscow Mun Radio Ex-
hibition; simplest form of battery superhet for
rural districts.  Uses four 2K2M- or 2Zh2M-type
tubes.. Electrical characteristics like those of
ARZ-49 and Moskvich.  Receives on 730--2,000 me-
ters long wave and 200-545 meters medium wave.

                                          159T105

GANZBURG, M. D.

Economic battery superheterodyne.  Moskva, Gosenergoizdat, 1951.

GANZBURG, M.                                        PA 190T100

USSR/Radio - Probe                            .   Jun 51

"A Probe for Checking Receivers," M. Ganzburg

"Radio" No 6, pp 27, 28

Describes homemade probe for preliminary check-
ing of receivers to locate the faulty stage.
Entire probe is housed in an i-f can, 65 x 35 x
35 mm, and main circuit uses a 1K1P tube, con-
nected as a triode. When checking rf stages,
tube is connected up as grid detector; when check-
ing af stages, tube operates as af amplifier.
Output is fed into headset connected in the plate
circuit.

190T100

GANZBURG, M. D.

Three-tube superheterodyne receiver

Moskva, Gos. energ. izd-vo, 1952. 31 p.

(Massovaia radiobiblioteka, vyp. 145)

(54-18905)

TK6563.G3

GANZBURG, M.D.; KONASHINSKIY, D.A., redaktor; VORONIN, K.P., tekhni-
    cheskiy redaktor.

    [How to check and adjust a radio receiver] Kak proverit' i nala-
dit' priemnik. Moskva, Gos. energ. izd-vo, 1954. 53 p. (Massovaia
radiobiblioteka, no. 198)                            (MLRA 7:9)
        (Radio--Receivers and reception)

VASIL'YEV, S.; GANZBURG, M.

"Moskvich-3" radio receiver. Radio no.3:23-25 Mr '54.   (MLRA 7:3)
(Radio--Receivers and reception)

GANZBURG, M.

Homemade intermediate-frequency filters. Radio no. 0:55-56 0 '54.
(Electric filters) (MLRA 7:11)

*GANZBURG, M.*

USSR/ Electronics - Radio combination

Card 1/1        Pub. 89 - 28/30

Authors      :  Ganzburg, M., and Skorospelov, D.

Title        :  Homemade combined radio and phonograph sets

Periodical   :  Radio 3, 59 - 61, Mar 1955

Abstract     :  The schematic drawing is given of the circuit of a homemade combined radio and phonograph set. Directions are also given for constructing the set, most of the parts of which are factory-made but many of which are also made at home. The method of tuning is also explained. Illustrations; drawing; table.

Institution :  .....

Submitted    :  .....

GANZBURG,M.; LEVINTOV,G.

"Ogonek" the radio receiver.  Radio no.10:19 0'55.  (MLRA 9:1)
     (Radio--Receivers and reception)

GANZBURG, M.D.; TARASOV, F.I., redaktor; VORONIN, K.P., tekhnicheskiy
    redaktor

[Attachments for detector receivers] Pristavki k detektornomu
priemniku. Moskva, Gos.energ. izd-vo, 1956. 15 p. (Massovaia radio-
biblioteka, no.261)                                        (MIRA 10:2)
        (Radio--Receivers and reception)

*GANZBURG, M. D*

107-5-19/54

AUTHOR:     Ganzburg, M. and Skorospelov, D.

TITLE:      A Simple Superheterodyne (Prostoy supergeterodin)

PERIODICAL: Radio, 1956, Nr5, pp. 17-19 (USSR)

ABSTRACT:   A selfmade superhet radio receiver is described. It has two bands: 150 to
            415 kc and  520 to 1.600 kc. Sensitivity at any point is better than 150 $\mu v$,
            selectivity  20 db or higher. Nonlinear distortion factor is under 10% at
            0.5 w output. A-f pass band of the overall receiver is 100 to 4.000 c with
            5 db irregularity. Sensitivity at the pickup jacks 200 mv, background
            level 26 db. Power consumption 20 w. Bantam tubes. Pentode grounded-plate
            oscillator.  Semiconductor-type two-diode rectifier.

            Description of all parts and how to make them with very limited facilities
            is given; also the schematic, parts, and assembly views. Tube types used:
            6А2П, 6К4П, 6Ж3П, 6П1П .

            There are 6 figures and one table in the article.

AVAILABLE:  Library of Congress.

Card 1/1

ANDREYEV, I.; GANZBURG, M.

Band selector for radio-broadcasting receivers. V pom. radioliub.
no.3:48-64 '57.                                                    (MIRA 10:12)
                    (Radio--Receivers and reception)

*(Ganzburg, M.D.)*

AUTHOR: Andreyev, I., and Ganzburg, M.

107-57-6-35/57

TITLE: A Keyboard Switch with a Common Contact Panel
    (Klavishnyy pereklyuchatel' s obshchey kontaktnoy panel'yu)

PERIODICAL: Radio, 1957, Nr 6, pp 36-38 (USSR)

ABSTRACT: A five-key do-it-yourself type panel-mounted control switch is de-
    scribed. A detailed structural drawing with all dimensions is supplied on a
    special page facing page 32 of the magazine. Four keys are intended for chang-
    ing wavebands, the fifth for on-off switching of the receiver. Instructions for
    making all details and assembling the switch are given.
    There are five figures in the article and one structural drawing combined with
    a pictorial diagram facing page 32.

AVAILABLE: Library of Congress

Card 1/1

ANDREYEV, Igor' Vasil'yevich, BERG,A.I., red.; BURLYAND, V.A., red.;
VANEYEV, V.I.,red.; GENISHTA,Ye.N., red.; DZHIGIT, I.S.,red.;
KANAYEVA, A.M., red.; KRENKEL', E.T.,red.; KULIKOVSKIY, A.A.,red.;
SMIRNOV, A.D.,red.; TARASOV, F.I.,red.: CHECHIK, P.O.,red.; SHAMSHUR,
V.I., red.; GANZBURG, M.D., red.; MEDVEDEV, L.Ya.,tekhn.red.·

[Cabinet designs for radio receivers] Vneshnee oformlenie priemnika.
Moskva, Gos. energ. izd-vo, 1958. 46 p.                    (MIRA 11:8)
          (Radio--Receivers and reception)

GANZBURG, Mark Davydovich; SHUL'GIN, K.A., red.; BORUNOV, N.I., tekhn. red.

[Improving phonation of receivers] Uluchshenie zvuchaniia priemnika.
Moskva, Gos. energ. izd-vo, 1958. 94 p. (Massovaia radiobiblioteka,
no.299)                                                    (MIRA 11:7)
                        (Radio--Receivers and reception)

*GHNZBORG, M·D·*

AUTHOR:   Ganzburg, M.D.                          106-58-3-4/19

TITLE:   Recent Developments in Foreign Radio Receivers (Novoye v
          zarubezhnykh radiopriyemnikakh)

PERIODICAL:   Elektrosvyaz', 1958, nr 3, pp 29 – 40 (USSR)

ABSTRACT:     A review of foreign (particularly West German) devel-
     opments in ultra-short wave, frequency-modulation, receivers.
     The following circuits are produced and discussed:-  1)  Input
     stages (grounded-grid, bridge-balanced, etc.);  2)  Noise
     suppression circuits;  3)  Automatic pass-band limiters with
     balanced tone control;  4)  Push-pull output stages without
     phase inversion;  5)  Wide-band output stages not using trans-
     formers;  6)  Low-frequency amplifiers giving pseudo-stereoscopic
     sound effects.  There are 16 figures.

SUBMITTED:  November 22, 1957

AVAILABLE:  Library of Congress
Card 1/1.
          1.  Frequency modulation receivers-Development   2.  Radio receivers-
          Germany

GANZBERG, M. D

AUTHOR:    Ganzburg, M.

107-58-5-26/32

TITLE:     Two-Channel LF Amplifier (Dvukhkanal'nyy usilitel' NCh)

PERIODICAL: Radio, 1958, Nr 5, pp 49 - 50 (USSR)

ABSTRACT:  A simple, two-channel, low-frequency amplifier is described,
           which may be used for stereophonic reproduction of concerts,
           recorded on tape or long-play records, or for receiving
           high-quality FM broadcasts. Figure 1 shows the circuit
           diagram of this amplifier which may be easily built by radio
           amateurs. The article contains descriptions of the various
           parts, and instructions for assembling. The amplifier is built
           with five miniature tubes: two "6N2P" and three "6P14P". The
           channel for the lower sound frequencies has the highest out-
           put, nominal rating 4 voltamperes, maximum 9 voltamperes with
           a non-linear distortion coefficient of 2.5%; it has a push-
           pull output stage with two "6P14P" tubes. The higher sound
           frequency channel has a nominal output of 1.5 voltamperes
           and a maximum of 3 voltamperes with a non-linear distortion
           coefficient of 4.5%. The amplifier reproduces sound fre-
           quencies from 60 to 15,000 cycles. The background noise at
Card 1/2   the outlet of the lower frequency channel does not exceed

Two-Channel LF Amplifier                                107-58-5-26/32

46 decibels at full power. The sensitivity of the amplifier
is 129 millivolts. The power supply unit consists of diodes
"DG-Ts27". Four electrodynamic loudspeakers are used, two
for the lower and two for the higher frequencies. The ampli-
fier was designed to work with exterior loudspeakers, however,
it is also possible to install all four loudspeakers in one
housing. In the first case loudspeakers "4GD-1" or "GD-3"
are used for the lower frequencies and two-diffusor loud-
speakers "2GD-3" for the higher frequencies. In the second
case, loudspeakers "5GD-14" or "5GD-9" for the lower frequen-
cies, and "2GD-3" or "1GD-9" for the higher frequencies,
are used.
There are four figures.

AVAILABLE:   Library of Congress

Card 2/2

SHTEYYERT, Lev Alekseyevich; GANZBURG, M.D., red.; VORONIN, K.P.,
tekhn.red.

[Adjustment of the microwave band in shortwave radio receivers]
Regulirovka UKV diapazona v liubitel'skikh priemnikakh.  Moskva,
Gos.energ.izd-vo. 1959.  15 p. (Massovaia radiobiblioteka, no.326).
                                            (MIRA 13:11)
    (Radio, Shortwave--Receivers and reception)

SOV/107-59-2-20/55

6(4)

AUTHOR:     Ganzburg, M.

TITLE:      Recent Developments in Ultra-Short Wave Input Units
            (Novoye vo vkhodnykh UKV blokakh)

PERIODICAL: Radio, 1959, Nr 2, pp 21-23   (USSR)

ABSTRACT:   The introduction of the ultra-short wave FM band in
            broadcast receivers has necessitated some essential
            corrections in designing cascades and nodal points.
            Multigrid frequency converters cannot be accepted for
            the ultra-short wave band because of their small in-
            put resistance and high noise level.  At present, for
            the ultra-short wave band, almost solely triode
            single-grid frequency converters are used, with a big
            input resistance and a high coefficient of amplifi-
            cation.  The use of a balancing network in single-
            grid converters, makes it possible to reduce the ra-
            diation of the heterodyne and thus diminish interfe-
            rences of neighboring receivers and television sets;

Card 1/2

SOV/107-59-2-20/55

Recent Developments in Ultra-Short Wave Input Units

to achieve this, an h-f cascade amplifier will be placed before the frequency converter, which will also increase receiver sensitivity.  In modern Soviet receivers, twin-triodes of the type 6N3P are used as well as various heterodyne circuits, depending on the tuning.  There are 7 circuit diagrams.

Card 2/2

LEVITIN, Yefim Alekseyevich; GANZBURG, M.D., red.; LARIONOV, G.Ye.,
        tekhn.red.

   [Handbook on radiobroadcast receivers] Spravochnik po radio-
   veshchatel'nym priemnikam. Moskva, Gos.energ.izd-vo, 1960.
   288 p.                                        (MIRA 13:7)
     (Radio--Receivers and reception)     (Radio circuits)

GANZBURG, M.; KANTOR, D.; KOTEL'NIKOV, A.; KUPTSOV, A.

"IAuza-5" magnetic tape recorder.  Radio no.12:27-30 D '60.
(MIRA 14:1)

(Magnetic recorders and recording)

GANZBURG, Mark Davidovich; TARASOV, F.I., red.; VORONIN, K.P., tekhn. red.

[Improvement of the audio systems of radio receivers] Uluchshenie zvuchaniia priemnika. Izd.2., perer. i dop. Moskva, Gosenergoizdat, 1961. 143 p. (Massovaia radiobiblioteka, no.398)                                                        (MIRA 15:7)
        (Radio--Receivers and reception)

ANDREYEV, I.V.; GANZBURG, M.D.; SOBOLEVSKIY, A.G.; CHESAKOV, S.F.;
    SINEL'NIKOVA, TS.B., red.; MAMONTOVA, N.N., tekhn. red.

[Radio consumer goods]Radiotovary; spravochnik.  Leningrad,
Gostorgizdat, 1962.  211 p.                        (MIRA 15:12)
    (Radio--Equipment and supplies)  (Phonograph)
                        (Television)

GANZBURG, Mark Davydovich; TARASOV, F.I., red.; BORUNOV, N.I.,
tekhn. red.

[Radio broadcast receivers] Radioveshchatel'nye priemniki.
Moskva, Gosenergoizdat, 1963.  24 p. (Massovaia radio-
biblioteka, no.476 p.                     (MIRA 17:1)

GANZBURG, M., inzh.; KANTOR, D., inzh.; KOTEL'NIKOV, A., inzh.

The "IAuza-10" stereophonic magnetic tape recorder. Radio
no.2:41-45 F '63.                                        (MIRA 16:2)
                (Magnetic recorders and recording)
                (Stereophonic sound systems)

GANZBURG, Mark Davidovich; TARASOV, F.I., red.

[Electric motors for magnetic tape recorders] Elektro-
dvigateli dlia magnitofonov. Moskva, Energiia, 1964.
15 p. (Massovaia radiobiblioteka. Spravochnaia seriia,
no.553)                                (MIRA 18:1)

GANZBURG, Mark Davidovich; KUZ'MINOV, A.I., red.

[Radio-phonographs, phonograph and tape recorder combina-
tions and tape recorder-radio-phonograph sets] Radiology,
magnitoly i magnitoredioly. Moskva, Izd-vo "Energiia," 1964.
31 p. (Massovaia radiobiblioteka, no.522)    (MIRA 17:9)

GANZBURG, M., inzh.; TAL'YANTSEV, A., inzh.

"IAuza-20" transistorized magnetic tape recorder.  Radio
no.11:39-41  N '65.

(MIRA 18:12)

GENDIN, Gennadiy Semenovich; GANZBURG, M.D., red.

    [High-quality low-frequency amplifiers] Vysokokache-
    stvennye liubitel'skie usiliteli nizkoi chastoty. Mo-
    skva, Energiia, 1965. 94 p. (Massovaia radiobiblioteka,
    no.577)                          (MIRA 19:1)

# GANZBERG, M. M.

Timan, A. F., and Ganzburg, M. M.  On the convergence of certain processes for the summation of Fourier series. Doklady Akad. Nauk SSSR (N.S.) 63, 619–622 (1948). (Russian).

Let $C$ be the space of all functions $f(x)$ continuous and of period $2\pi$, and let $S_n(f, x)$ be the $n$th partial sum of the Fourier series of $f$. Given $p$ sequences of numbers $\{\alpha_n^1\}, \{\alpha_n^2\}, \cdots, \{\alpha_n^p\}$ satisfying the condition (*) $\alpha_n^k = O(1/n)$ for all $k$, the authors consider the expression

$$(\ddagger) \qquad \omega_n(\alpha_n^1, \cdots, \alpha_n^p; x, f) = p^{-1} \sum_{k=1}^{p} S_n(f, x + \alpha_n^k)$$

and show that a necessary and sufficient condition for ($\ddagger$) to tend to $f(x)$ for all $x$ is that

$$\sum_{k, l=1}^{p} \cos (n + \tfrac{1}{2})(\alpha_n^k - \alpha_n^l) = O(\log^{-1} n).$$

More generally it is shown that the norm of the operator ($\ddagger$) in the space $C$ is

$$4p^{-1}\pi^{-1} \log n \left| \sum_{k, l=1}^{p} \cos (n + \tfrac{1}{2})(\alpha_n^k - \alpha_n^l) \right| + O(1).$$

Let $\{\alpha_n\}$ be a sequence tending to 0 and $r \geqq 0$ a fixed integer. For the sums $\omega_n^{(r)}(\alpha_n; f, x) = 2^{-r} \sum_{i=0}^{r} \binom{r}{i} S_n(f, x + i\alpha_n)$ the authors show that they tend to $f(x)$, for all $f \in C$, if and only if there is a function $m = m(n)$ $(n = 1, 2, \cdots)$ taking only a finite number of (integral) values and such that $\alpha_n = 2m\pi/(2n + 1) + O(n^{-1} \log^{-1/r_{\theta}})$. These theorems generalize some of the well-known results of Rogosinski [Math. Ann. 95, 110–134 (1925); Math. Z. 25, 132–149 (1926)].

A. Zygmund (Chicago, Ill.).

Source:  Mathematical Reviews,     Vol  10  No. 7

GANSBURG S. E.

1012.  TSUKER M. B. and GANSBURG S. E.  CSF changes in poliomyelitis
Neuropathology and Psychiatry, Moscow 1949, 18/3 (40-43)

The diagnostic value of the protein and cellular content in cerebrospinal
fluid are discussed.  During the first five days of the disease a normal
protein content was found and only a moderate increase of cells.  There-
after the protein content increased and attained its maximum (0.65 mg.
per 100ml.) on the 14th day, while the cells decreased and returned to
normal.  In some cases elevated protein content, although moderate,
persisted till the 21st day.  Some deviations from the above picture are
also described.  In severe cases there was a pleocytosis and only a
slight increase of protein.

                                        Paul - New Haven

So.  NEUROLOGY & PSYCHIATRY Section VIII Vol. 3[1] Jan-Jun 1950 Excepta Medica

GANZBURG, S. M.
(# 233)

Neurol. Dept., Child. Hosp. Dzerzhinsko Differential diagnosis of poliomyelitis and
polyradiculoneuritis in children Vop. Pediat. 1950, 13/3 (17-21)
Polyradiculoneuritis (p.r.) also occurs in children, although rarely.  Poliomyelitis
(p.m.) always begins acutely with rise of temperature, whereas p.r. may begin with
a normal temperature.  The neurological manifestations of p.m.  develop rapidly
(1-2 days) whereas those of p.r. take several days or weeks to appear.  In p.m. the
paralysis is the most pronounced symptom and in p.r. the pain.  In p.m. the para-
lyses are 'mosaic' in distribution and chiefly proximal; in p.r. they are symmetrical
and chiefly distal.  In the first 5 days of p.m. the CSF shows slight pleiocytosis and
normal protein content; in p.r. the cell count is normal and protein increased at this
stage.  From the 5th to the 14th day of p.m. the cell count becomes normal and the
protein increases only slightly : in p.r. the cell count remains normal but the protein
content continues to increase for several weeks.

Salamun - Koper (XX, 7, 8)

So:  EXCERPTA MEDICA   Vol. 5   No. 3   Sec. XIII   March 1952

GANZBURG, S. E.

Clinico-virological investigations in affections of nervous system, caused by epidemic parotitis virus in children. Klin.med.,Moskva 18 no.10: 44-50 Oct 50.                                                      (CLML 20:4)

1. Of the Nervous Diseases Division of Children's Hospital imeni Dzerzhin-skiy, Moscow.

GANSBURG S. E. and LEVIN E. R.

3491. GANZBURG S. E. and LEVIN E. R.  * Haemogram and sedimentation rate in mumps meningitis (Russian text) PEDIATRIJA 1953, 1 (68)

116 children with meningitis and meningoencephalitis due to mumps were examined. The aetiology was confirmed epidemiologically and serologically. Leucopenia (in 74 children the count was less than 8,000) is characteristic; at the same time the sedimentation rate was normal.  In the majority a neutrophilia with lymphopenia and eosinopenia was present.                                                    Najman - Rijeka (XX, 7, 8)

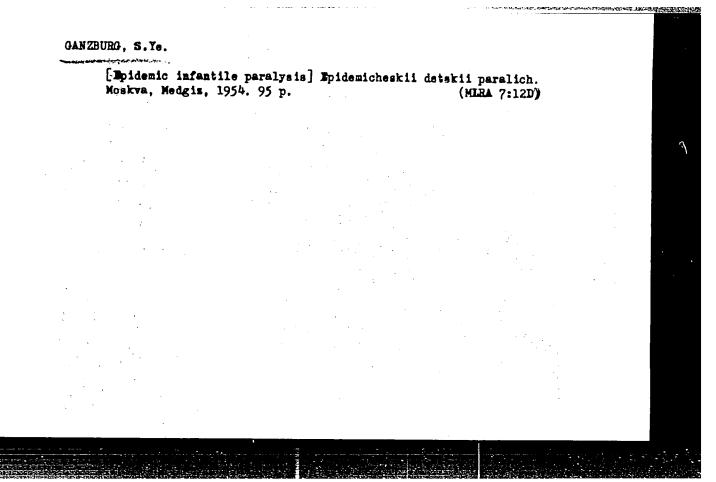SO:  Excerpta Medica, Section VIII, Vol 7, No 9

GANZBERG S. E.

*Results of a 13-year clinical and epidemiological study of poliomyelitis (Russian text)
PEDIATRIJA 1953, 1 (68-69)

Observations from 1938-1950 led to the following conclusions: The morbidity increases periodically. Foci with increased morbidity are precursors of epidemics. The highest frequency of cases is in August, the lowest in January. 62.3% of cases occur in children less than 4 yr old. Temperature is elevated in all children being higher than 38° in 93% and subfebrile in the rest. The fever usually lasts 3-8 days. Catarrh of the upper respiratory tract occurs in 1/3 and gastro-intestinal disturbances in 1/6 of the cases. In nearly all cases affection of the meninges was present. Paralysis usually occurred between the 4th and 7th day.
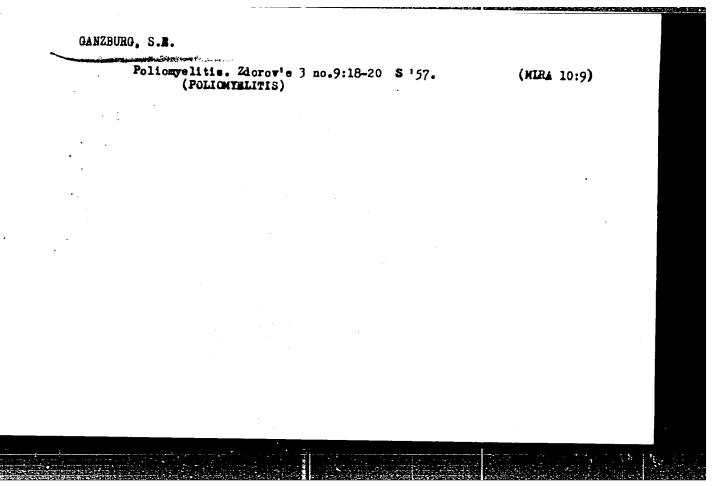
Najman - Rijeka (XX, 4, 7, 8)

SO:  Excerpta Medica
     Section IV Vol 7 No. 9

GANZBURG, S.Ye.

[Epidemic infantile paralysis] Epidemicheskii detskii paralich.
Moskva, Medgiz, 1954. 95 p.                    (MIRA 7:12D)

TSUKER, M.B., professor; GANSBURG, S.E.

Acute progressive malignant form of poliomyelitis (ascending
poliomyelitis). Pediatriia no.1:49-52 Ja-F '54.        (MLRA 7:3)

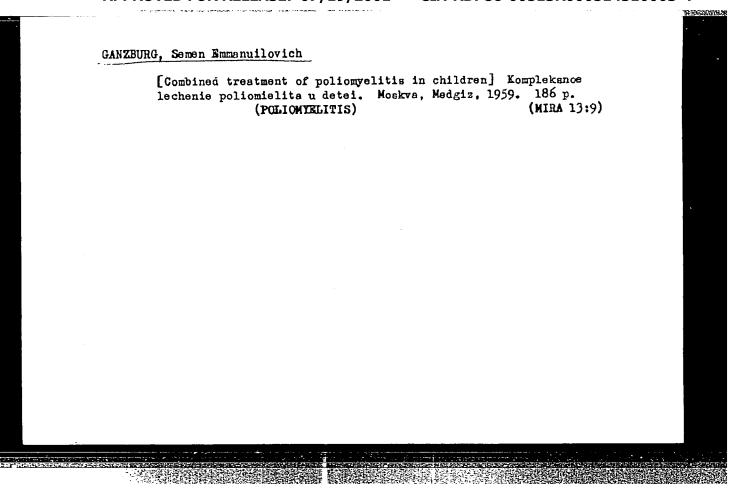1. Iz detskoy bol'nitsy im. Dzerzhinskogo (glavnyy vrach A.N.
Kudryasheva).                              (Poliomyelitis)

GANZBURG, S.R.

Poliomyelitis. Zdorov'e 3 no.9:18-20  S '57.          (MIRA 10:9)
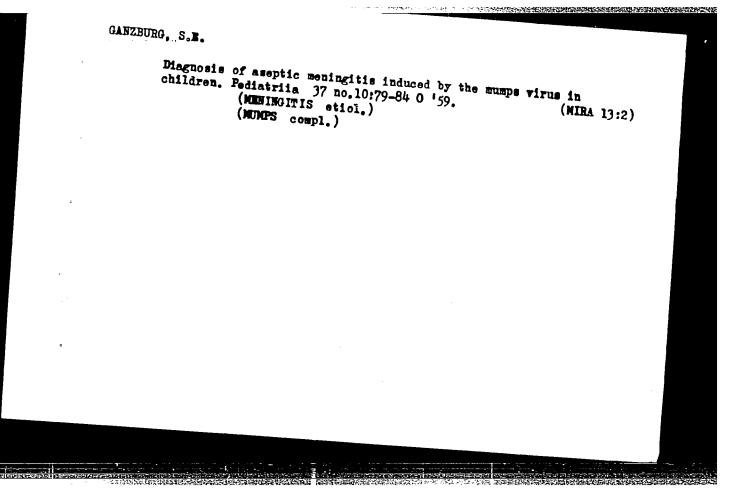        (POLIOMYELITIS)

GANZBURG, S.Ye.; BRAININA, R.A.; BOBAKOVA, M.I.; SAMBORSKAYA, Z.I.
IRTLACH-MUMOVA, B.I.; LOBKO, M.A.

Epidemiological study on possible shortening of the isolation period
in epidemic parotitis. Zhur. mikrobiol. epid. i immun. 28
no.2:38-39 F '57                                    (MLRA 10:4)

1. Iz Moskovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.
        (MUMPS epidemiol.
              shortening of isolation period)

GANZBURG, Semen Emmanuilovich

[Combined treatment of poliomyelitis in children] Komplekance
lechenie poliomielita u detei.  Moskva, Medgiz, 1959.  186 p.
(POLIOMYELITIS)                          (MIRA 13:9)

GANZBURG, S.E.

Diagnosis of aseptic meningitis induced by the mumps virus in
children. Pediatriia  37 no.10:79-84 0 '59.
    (MENINGITIS  etiol.)                        (MIRA 13:2)
    (MUMPS  compl.)

GANZBURG, S. E.; FREYDKOV, V. I.

Differential diagnosis of serous meningitis of enterovirus
etiology. Pediatriia no.6:8-12  '62.            (MIRA 15:6)

1. Iz nevrologicheskogo otdeleniya Detskoy bol'nitsy imeni F. E.
Dzerzhinskogo (glavnyy vrach A. N. Kudryashova).

(MENINGITIS)   (VIRUS DISEASES)
   (DIAGNOSIS, DIFFERENTIAL)

GANZBURG, S.F. (Moskva)

Clinical aspects, treatment, and prevention of poliomyelitis.
Med.sestra no.6:25-30 Je '62.                          (MIRA 15:8)
(POLIOMYELITIS)

GANZBURG, S.E.; TABOLIN, V.A.

Late neurological sequelae of hemolytic disease  in newborn
infants. Vop. okhr. materin. dets. 8 no.1:44-48 '63
(MIRA 17:2)

1. Iz kafedry pediatrii ( zav. - prof. G.N. Speranskiy) TSen-
tral'nogo instituta usovershenstvovaniya vrachey.

GANZBURG, S.E.

Clinical characteristics of lesions in the nervous system caused by the ECHO type 9 virus. Pediatriia 42 no.5:33-36  My'63

(MIRA 16:11)

1. Iz kafedry pediatrii (zav. - prof. G.N.Speranskiy) TSentral'nogo instituta usovershenstvovaniya na baze Detskoy bol'nitsy imeni F.E. Dzerzhinskogo (glavnyy vrach A.N.Kudryashova).

GALITSKIY, B.M.; GANZBURG, TS.A.; SMIRNOV, B.K., otv.red.; PEVZNER, A.S., zav.red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Uniform time and pay standards for construction, assembly, and repair operations in 1960] Edinye normy i rastsenki na stroitel'nye, montazhnye i remontno-stroitel'nye raboty, 1960 g. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Sbornik 19. [Floors] Poly. 1960. 39 p.     (MIRA 13:6)

1. Russia (1923-  U.S.S.R.)  Gosudarstvennyy komitet po delam stroitel'stva.  2. Normativno-issledovatel'skaya stantsiya Glavmosoblstroya pri Mosoblispolkome (for Ganzburg).
          (Floors)          (Wages)

GANZBURG, TS., inzh.; SALAGINA, L., inzh.; SHANINA, L., inzh.

The A.Ivasechko brigade of assemblers sets an example.
Na stroi. Ros. 6 no.2:18-19 F '65.

(MIRA 18:1)

GANZELKA, Irzhi [Hanzelka, Jiří]; ZIKMUND, Miroslav; BABIN, S. [translator];
NAZAROV, R. [translator]; MALININA, G., red.; KURLYKOVA, L.,
tekhn.red.

[There, beyond the river is Argentina] Tam, za rekoiu - Argentina.
Moskva, Izd-vo TsK VLKSM "Molodaia gvardiia." 1959.   428 p.
Translated from the Czech.                          (MIRA 13:4)
         (Argentina--Description and travel)
         (Brazil--Description and travel)

ZIKMUND, Miroslav; GANZELKA, Irzhi [Hanzelka, Jiri]; BABIN, S.
    [translator]; NAZAROV, R. [translator]; KLYUYEVA, E.,
    red.; MIKHAYLOVSKAYA, N., tekhn. red.

    [Half-moon turned over] Perevernutyi polumesiats. Moskva,
    Molodaia gvardiia, 1963. 341 p.            (MIRA 16:8)
    Abridged translation from the Czech.
        (Balkan Peninsula--Description and travel)
        (Near East--Description and travel)

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"Choice of Materials for the Stone Support of Vertical Mine
Pillars Applicable in Conditions of the Donets Basin."  Cand Tech
Sci, Moscow Mining Inst imeni I. V. Stalin, Ministry of Higher
Education USSR, Moscow, 1954. (KL, No 7, Feb 55)

SO:  Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical
     Dissertations Defended at USSR Higher Educational Institu-
     tions (14)

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     PROZOROVSKAYA, V.L., tekhnicheskiy redaktor; NADZINSKAYA, A.A.,
     tekhnicheskiy redaktor

     [Principles of constructing coal preparation and briquet plants]
     Osnovy sooruzheniia ugleobogatitel'nykh i briketnykh fabrik.
     Moskva, Ugletekhizdat, 1954. 133 p. [Microfilm]     (MLRA 8:4)
          (Coal preparation)    (Industrial buildings)
          (Briquets (Fuel))

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GANZEN, G.A.                                    N/5
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                                               .G2

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Pit Mining, by)  G. A. Ganzen (i Dr.) Pos. Red. N. M. Petrovskogo.
Moskva, Ugletekhizdat, 1955.
    139 p.  Diagrs., Tables.

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    red.izd-va; CHANTSEVA, G.M., tekhn.red.

[Principles for the construction of coal preparation and
briquetting plants]  Osnovy sooruzheniia ugleobogatitel'nykh
i briketnykh fabrik.  Moskva, Ugletekhizdat, 1959.  105 p.
                                                (MIRA 12:8)

        (Factories--Design and construction)

BUCHNEV, Valer'yan Konstantinovich, prof., doktor tekhn. nauk,
[deceased]; BRONNIKOV, Dmitriy Mikhaylovich, doctor tekhn.
nauk; VASIL'CHIKOV, Nikolay Vasil'yevich, kand. tekhn. nauk;
GANZEN, Georgiy Aleksandrovich; SHUSTOV, Nikolay Vasil'yevich;
FETEROVICH, Izrail' Izraylevich, inzh.; DEMIDYUK, G.P., otv.
red.; BURTSEV, L.I., otv. red.; KOROLEVA, T.I., red. izd-va;
OSVEYENKO, V.G., tekhn. red.; PROZOROVSKAYA, V.I., tekhn. red.

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vochnik po bureniiu shpurov i skvazhin na podzemnykh rabotakh.
[By] V.K.Buchnev, i dr. Moskva, Gosgortekhizdat, 1962. 271 p.
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                    (APPENDIX—CANCER)